

AMENDMENT(S) TO THE CLAIMS

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3 1. (currently amended) A method comprising:

4 establishing an instantaneous network between a first mobile device and a
5 second mobile device, each mobile device having ad hoc networking capability;

6 sending first information from the first mobile device to the second mobile
7 device automatically, the first information including at least information received
8 by the first mobile device from one or more third devices other than the first
9 mobile device and the second mobile device during at least one instantaneous
10 network previously established between the first mobile device and the one or
11 more third devices; and,

12 storing the first information at the second mobile device in a second tree
13 data structure;

14 wherein the first mobile device is not part of the at least one instantaneous
15 network previously established between the first mobile device and the one or
16 more third devices during the establishing and the sending.

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18 2. (original) The method of claim 1, wherein the instantaneous network
19 between the first mobile device and the second mobile device is a piconet.
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1 3. (currently amended) The method of claim 1, further comprising:

2 sending second information from the second mobile device to the first
3 mobile device, the second information including at least information received by
4 the second mobile device from one or more fourth devices other than the first
5 mobile device and the second mobile device during at least one instantaneous
6 network previously established between the second mobile device and the one or
7 more fourth devices; and,

8 storing the second information at the first mobile device in a first tree data
9 structure in which the first information has already been stored.

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11 4. (currently amended) The method of claim 3, wherein the first
12 information is stored at the second mobile device in ~~a~~ the second tree data
13 structure in which the second information has already been stored.

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15 5. (currently amended) The method of claim 4, wherein each of the first
16 tree data structure at the first mobile device and the second tree data structure at
17 the second mobile device ~~is a tree structure~~ indicate how many degrees of
18 separation there are between given nodes stored in the first and second tree data
19 structures and nodes representing the first and second mobile devices,
20 respectively.

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22 6. (previously presented) The method of claim 1, wherein the first
23 information includes identity information regarding each of the one or more third
24 devices and identity information regarding the first mobile device.

1 7. (original) The method of claim 1, wherein the first information includes
2 one or more of: advertising information and dating information.

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4 8. (original) The method of claim 1, wherein the first information is
5 divided into nodes.

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7 9. (original) The method of claim 8, wherein each node contains an
8 associated decay value, such that information contained in the node decays over
9 time and the node is deleted upon expiration.

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11 10. (currently amended) The method of claim 9, wherein storing the first
12 information at the second mobile device comprises copying each node of the first
13 information into the second tree data structure, including the associated decay
14 value contained in the node.

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16 11. (currently amended) The method of claim 9, wherein storing the first
17 information at the second mobile device comprises copying each node of the first
18 information into the second tree data structure, and updating the associated decay
19 value contained in the node.

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21 12. (currently amended) The method of claim 1, wherein at least one of
22 the one or more third devices ~~and the one or more fourth~~ devices is a mobile
23 device.
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1 **13.** (currently amended) The method of claim 1, wherein at least one of
2 the one or more third devices ~~and the one or more fourth devices~~ is a stationary
3 device.
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5 **14.** (original) The method of claim 1, wherein the first information decays
6 over time, such that the first information is deleted upon expiration.
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8 **15.** (original) The method of claim 1, wherein the first information is
9 formatted according to a markup language.
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1 **16.** (currently amended) A computer-readable medium having instructions
2 stored thereon for execution by a processor of a first device having ad hoc
3 networking capability to perform a method comprising:

4 establishing an instantaneous network with a second device having ad hoc
5 networking capability;

6 exchanging configuration information with the second device, each of the
7 first device and the second device having a current configuration selected from at
8 least a send-only configuration and a send-and-receive configuration;

9 in response to determining that the current configuration of the second
10 device is the send-and-receive configuration,

11 sending first information to the second device, the first information
12 including at least information received by the first device from one or more
13 third devices other than the first device and the second device during at
14 least one instantaneous network previously established between the first
15 device and the one or more third devices; and,

16 in response to determining that the current configuration of the first device
17 is the send-and-receive configuration,

18 receiving second information from the second device;

19 storing the second information in a first tree data structure;

20 wherein the first device is not part of the at least one instantaneous network
21 previously established between the first device and the one or more third devices
22 during the establishing, the exchanging, and the sending.

1 **17.** (original) The computer-readable medium of claim 16, wherein the
2 instantaneous network established with the second device is a piconet.

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4 **18.** (previously presented) The computer-readable medium of claim 16,
5 wherein the second information includes at least information received by the
6 second device from one or more fourth devices other than the first device and the
7 second device during at least one instantaneous network previously established
8 between the second device and the one or more fourth devices.

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10 **19.** (currently amended) The computer-readable medium of claim 16,
11 wherein the first information has already been stored in the first tree data structure.

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13 **20.** (original) The computer-readable medium of claim 16, wherein each
14 of the first information and the second information is divided into nodes.

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16 **21.** (original) The computer-readable medium of claim 20, wherein each
17 node contains an associated decay value, such that information contained in the
18 node decays over time and the node is deleted upon expiration.

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20 **22.** (currently amended) The computer-readable medium of claim 21,
21 wherein storing the second information in the first tree data structure comprises
22 copying each node of the second information into the first tree data structure,
23 including the associated decay value contained in ~~the~~ each node.

1 **23.** (currently amended) The computer-readable medium of claim 21,
2 wherein storing the second information in the first tree data structure comprises
3 copying each node of the second information into the first tree data structure, and
4 updating the associated decay value contained in ~~the~~ each node.

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6 **24.** (original) The computer-readable medium of claim 16, wherein at least
7 one of the first device and the second device is a mobile device.

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9 **25.** (original) The computer-readable medium of claim 16, wherein at least
10 one of the first device and the second device is a stationary device.

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12 **26.** (original) The computer-readable medium of claim 16, wherein the
13 first device has Bluetooth communication capability that enables the ad hoc
14 networking capability.

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16 **27.** (original) The computer-readable medium of claim 16, wherein the
17 first device has 802.11b communication capability that enables the ad hoc
18 networking capability.

1 **28.** (currently amended) A device comprising:

2 a communications component enabling ad hoc networking capability;

3 a memory storing a computer program to establish an instantaneous
4 network with a second device using the ad hoc networking capability, to send first
5 information from a first tree data structure stored in the memory where the second
6 device has a receiving configuration, and to receive second information from the
7 second device and store the second information in the first tree data structure
8 where the device has a receiving configuration; and,

9 a processor executing the computer program from the memory, the first
10 information including at least information received by the device from one or
11 more third devices other than the device and the second device during at least one
12 instantaneous network previously established between the device and the one or
13 more third devices;

14 wherein the device is not part of the at least one instantaneous network
15 previously established between the device and the one or more third devices when
16 the first information is sent from the first tree data structure stored in the memory
17 or when the second information is received from the second device.

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19 **29.** (previously presented) The device of claim 28, wherein the
20 instantaneous network established with the second device is a piconet.

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22 **30.** (original) The device of claim 28, wherein the device is a mobile
23 device selected from a group of mobile devices comprising: a wireless phone and
24 a personal-digital assistant (PDA) device.
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1 **31. (original)** The device of claim 28, wherein each of the first information
2 and the second information is divided into nodes, each node containing an
3 associated decay value, such that information contained in the node decays over
4 time and the node is deleted upon expiration.

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6 **32. (original)** The device of claim 28, further comprising one or more of:
7 an input component, and a display component.
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1 33. (currently amended) A method for communicating information from a
2 first device to a second mobile device via an intermediary mobile device, each of
3 the first device, the second mobile device and the intermediary mobile device
4 having ad hoc networking capability, the method comprising:

5 providing a first ad hoc network including at least the first device and the
6 intermediary mobile device;

7 transmitting information from the first device to the intermediary mobile
8 device through the first ad hoc network through which the information is provided
9 from the first device to the intermediary mobile device;

10 storing the information in an intermediary tree data structure at the
11 intermediary mobile device;

12 permitting the first ad hoc network to dissipate at least with respect to the
13 intermediary mobile device;

14 establishing, after the permitting, a second ad hoc network including at
15 least the intermediary mobile device and the second mobile device; and,

16 automatically sending the information from the intermediary tree data
17 structure at the intermediary mobile device to the second mobile device.
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1 **34.** (currently amended) A mobile device that is capable of acting as an
2 intermediary and that is configured to enable it to perform actions comprising:
3 establishing a first instantaneous network including at least the
4 intermediary mobile device and a second mobile device;
5 receiving information at the intermediary mobile device from the second
6 mobile device via the first instantaneous network;
7 storing the information in an intermediary tree data structure at the
8 intermediary mobile device;
9 terminating the first instantaneous network at least with respect to the
10 second mobile device;
11 establishing, after the terminating action, a second instantaneous network
12 including at least the intermediary mobile device and a third mobile device; and,
13 sending, after the establishing a second instantaneous network action, the
14 information from the intermediary tree data structure at the intermediary mobile
15 device to the third mobile device via the second instantaneous network.
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1 35. (currently amended) The mobile device of claim 34, wherein ~~the~~
2 ~~action of storing comprises an action of storing the information at the intermediary~~
3 ~~mobile device in a tree structure the information includes multiple nodes~~
4 ~~representing multiple devices, including an intermediary node representing the~~
5 ~~intermediary mobile device and a second node representing the second mobile~~
6 ~~device; and wherein the intermediary node comprises a top-most node of the~~
7 ~~intermediary tree data structure and the second node is directly connected to the~~
8 ~~intermediary node to indicate that the intermediary mobile device directly~~
9 ~~communicated with the second mobile device.~~

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11 36. (currently amended) The mobile device of claim 34, wherein the
12 action of sending comprises an action of automatically sending the information
13 from the intermediary tree data structure at the intermediary mobile device to the
14 third mobile device via the second instantaneous network responsive to the
15 establishing a second instantaneous network action.

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17 37. (previously presented) The mobile device of claim 34, wherein the
18 information comprises identity information of the second mobile device.
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1 **38.** (previously presented) The mobile device of claim 34, wherein the
2 information is directed to at least one node comprising the second mobile device,
3 the information including an associated decay value such that the information
4 about the second mobile device decays over time and the information about the
5 second mobile device may be deleted upon expiration of the associated decay
6 value.

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8 **39.** (previously presented) The mobile device of claim 34, wherein the
9 information comprises one or more of: advertising information and dating
10 information.

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13 **40.** (new) The computer-readable medium of claim 20, wherein a number
14 of levels down a given node is from a top-most node of the first tree data structure
15 indicates how many degrees of separation there are between the given node and
16 the first device.

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18 **41.** (new) The device of claim 28, wherein each of the first information
19 and the second information is divided into nodes; and wherein a number of levels
20 down from a top-most node of the first tree data structure that a given node
21 representing the second device of the stored second information is indicates how
22 many degrees of separation there are between the second device and the device.

1 **42.** (new) The device of claim 31, wherein a number of levels down from
2 a top-most node of the first tree data structure that a particular node representing a
3 particular device of the one or more third devices is indicates how many degrees
4 of separation there are between the particular device and the device.

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6 **43.** (new) The method of claim 33, wherein the information includes
7 multiple nodes in a tree data structure; and wherein differences between levels of
8 the multiple nodes indicate degrees of separation between devices represented by
9 the multiple nodes.

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11 **44.** (new) The mobile device of claim 34, wherein a top-most node of the
12 intermediary tree data structure represents the intermediary mobile device; and
13 wherein a number of levels that a particular node representing a particular device
14 is down from the top-most node indicates how many degrees of separation there
15 are between the intermediary mobile device and the particular device.